

Application Serial No. 10/019,894
Attorney Docket No. 10191/2142
Reply to Office Action dated February 1, 2006

AMENDMENTS TO THE CLAIMS:

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

LISTING OF CLAIMS:

- 1-5. (Canceled).
6. (Currently Amended) A navigation method for use in an on-board vehicle navigation system, the method comprising:
 - determining a route in the on-board vehicle navigation system in a vehicle;
 - transmitting delta information from a control center to the vehicle information system for use in providing optimized route planning, wherein [[only]] the delta information ~~representing~~ represents only ~~necessary~~ required deviations from a previously determined route ~~for driving an alternative required to bypass a traffic problem along a section of the route, and wherein the delta information~~ is transmitted from the control center to the vehicle navigation system only if the traffic problem exists.
7. (Previously Presented) The method of claim 6, wherein the transmitting includes transmitting a current vehicle position, a destination of the route and a database version information to the control center to initiate optimized route planning.
8. (Currently Amended) A method for use in controlling management of motor vehicle traffic flow, the method comprising:
 - transmitting delta information from a control center to an on-board vehicle navigation system in a vehicle to prevent a traffic problem, wherein the delta information represents only deviations from a previously determined route required to bypass the traffic problem, and wherein the delta information is transmitted only if the traffic problem exists; and
 - distributing the motor vehicle traffic flow among a plurality of detour segments in a controlled manner when there is a traffic problem and a plurality of feasible detour routes are available.

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9. (Currently Amended) A vehicle navigation system for use in a vehicle, the vehicle navigation system comprising:

a determining arrangement to determine a route in the vehicle navigation system;

a transmitting arrangement to transmit delta information from a control center to the vehicle navigation system for use in providing optimized route planning, wherein [[only]] the delta information representing represents only required necessary deviations from a previously determined route required to for driving an alternative bypass a traffic problem along a section of the route, and wherein the delta information is transmitted from the control center to the vehicle navigation system only if the traffic problem exists.

10. (Currently Amended) A computer program for use in a traffic control center, comprising program code for executing a method for use in controlling management of motor vehicle traffic flow, the method including:

transmitting delta information from a control center to an on-board vehicle navigation system in a vehicle to prevent a traffic problem, wherein the delta information represents only deviations from a previously determined route required to bypass the traffic problem, and wherein the delta information is transmitted only if the traffic problem exists; and

distributing the motor vehicle traffic flow among a plurality of detour segments in a controlled manner when there is a traffic problem and a plurality of feasible detour routes are available.

11. (Previously Presented) The navigation method of claim 6, wherein the delta information includes information required for driving on a detour route from the previously determined route, which is calculated in the vehicle navigation system.

12. (Previously Presented) The navigation method of claim 11, wherein the detour route is a tertiary route.

13. (Previously Presented) The vehicle navigation system of claim 9, wherein the delta information includes information required for driving on a detour route from the previously determined route, which is calculated in the vehicle navigation system.

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14. (Previously Presented) The vehicle navigation system of claim 13, wherein the detour route is a tertiary route.

15. (New) The navigation method of claim 6, further comprising:
outputting instructions to navigate the route, the instructions being modified only in part by the delta information and only if the traffic problem exists.

16. (New) The navigation system of claim 9, further comprising:
an arrangement to output instructions the route, the instructions being modified only in part by the delta information and only if the traffic problem exists.